Attachment #6

DATE: 09/19/07

TO: Distribution

FROM: Paul Persing

SUBJECT: Weekly Hazardous Waste Management Inspection

INSPECTION DATE: September 19, 2007

90 DAY ACCUMULATION TANKS

Tank	Date Last Emptied	Due Date
VT-245	07/13/07	09/21/07
VT-130	08/14/07	10/23/07
VT-132	08/14/07	10/23/07
VT-602	07/04/07	09/12/07

BOILER TESTS (BIF)

Shutdown	Date Last Tested	Due Date
Residue Flow & Leak Test		
BL#1	09/04/07	10/04/07
BL#2	Shut down	
CO ppmv		
BL#1	09/11/07	09/18/07
BL#2	On Gas	
Residue Samples	06/29/07	09/27/07
Quarterly calibration error test (First Friday of Quarter)		
CO	06/20/07	09/18/07
NOx	06/20/07	09/18/07
O2	06/20/07	09/18/07
Opacity	06/20/07	09/18/07

STORAGE TANK HIGH LEVEL ALARM TEST

Tank	Date Last Tested	Due Date
VT-621	07/03/07	06/22/08
VT-622	07/03/07	06/22/08
VT-701	07/03/07	06/22/08

STORAGE TANK ANNUAL EMPTY

Tank	Date Last Emptied	Due Date	Source:
VT-621	02/22/07	01/23/08	flow through verififcation demonstration
VT-622	02/22/07	01/23/08	flow through verififcation demonstration

Annual Used Oil Sample from Maintenance Tote(s)

Last Taken	Take by
12/01/06	11/16/2007

Annual NPDES Inspection

Inspected	Inspect by
11/08/06	10/24/2007

Replace Acid Tote

Last change:	Internal Due Date to change:
11/14/2006	10/30/2007

Replace Carbon Drum on Wastewater Pits

Date:	Offline	Online	Due for chang (internal limit 18 days)
Unit 2 Phenol Sump			
FN-200 A	9/4/07		
FN-200 B		9/4/07	9/22/07
Unit 2 Non-phenolic			
FN-201A	9/4/07		
FN-201B		9/4/07	9/22/07
Unit 3 Phenol Sump			
FN-300A	9/4/07		
FN-300B		9/4/07	9/22/07
Uni1 AMS Phenol Sump			
FN-106A	9/4/07		
FN-106B		9/4/07	9/22/07

SEE OTHER SIDE FOR HAZARDOUS & RESIDUAL WASTE ISSUES & OTHER COMMENTS.

Distribution:

W. J. Belter
J. White
W. Devine
J. Lynch
L DeFulio
L. Fisher
B. Elswick
L. Kerrigan
G. E. Hessler
A. Skramstad
D. Sekel
D. Martin
D. Dancer
B. Cornwall
Production Foremen

HAZARDOUS & RESIDUAL WASTE MANAGEMENT ISSUES

Department Responsible	Area	Issue	Action Taken (T) / Required (R)	Target Due Date	Person(s) contacted to correct problem
Operations	Unit 2 phenol pit	Bottles on sump lid and caps	(R) Place waste in drum	9/20/2007	Tito Roman
Operations	Track 10 & 11	Glass bottles on curb	(R) Crush and dispose bottles	9/20/2007	Tito Roman
Previous: Please note that the highlighted ones are still open.					
Operations	PR2	VT-602 approaching 90 days accumulation period	(T) Coordinate to empty VT-602	9/14/2007	T. Dwornik
Operations	Track 10&11	Glass bottles on curb	(R) Crush and dispose bottles	Open	T. Dwornik
Maintenance	Fluorescent Lamps Accumulation Area	Drum with lamps with label indicating accumulation date.	(R) Put lable on drum and indicate accumulation date.	9/14/2007	J. Gamble

FRANKFORD PLANT HAZARDOUS WASTE INSPECTION FORM
PLACE "X" IF AREA IS DEFICIENT (MAKE COMMENTS BELOW)

INSPECTED BY: Paul Persing
DATE: 09/19/07
TIME: 11:00 AM

CONTAINER STORAGE INVENTORY	
Hazardous	50
Residual	103

		LEAKS FROM TANKS	DIKE CONDITION (CRACKS, HOLES, ETC.)	CONTAINER CONDITION (BULGING, RUST, LEAK, ETC.)	CONTAINER COVERED	PROPER LABELING (DATE, ID, ETC.)	ADEQUATE SODA ASH SUPPLY	REACTIVES IN SECTION B? ALL OTHERS IN SECTION A?	UNSHIPPED DRUMS IN WAREHOUSE	ANY SPILLS OF MATERIAL	PALLETS IN POOR CONDITION
UNIT NO. 2:											
	CHP FILTER AREAS	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	EAST PROCESS ACCUMULATION POINTS	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	WEST TANK ACCUMULATION POINTS	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	FEROME DRUM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	VT-245	8' 0" OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	UNIT 2 TANK FARM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	TANK FARM DIKE VALVES	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
										No	
UNIT NO. 3:	CHP FILTER AREAS	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	EAST TANK ACCUMULATION POINTS	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	UNIT 3 TANK FARM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	TANK FARM DIKE VALVES	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
BOILERHOUSE:	BOILERHOUSE	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	LAB WASTE DRUMS	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	VT-701 OIL TOTES CONTAINMENT VALVE	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
OTHER PLANT AREAS:											
	PR-2	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	PR-2 TANK FARM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	MAINTENANCE SHOP	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	MAINTENANCE YARD	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	VT-602	11' 1" OK	ok	OK	OK	OK	N/A	N/A	N/A	No	OK
	VT-130	OOS OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	VT-132	0' 7" OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	STOREROOM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	GARAGE(Firehouse)	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	Acet. Filt @ high purity tank farm	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	UNIT 1 TANK FARM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	TANK FARM DIKE VALVES	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	OX-801	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	OX-501	Ok	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	OX-401	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	LEAD ACID BATTERY SHED	OK	OK	OK	N/A	OK	N/A	N/A	N/A	No	OK
	Drum Pad	OK		ok	N/A	OK	N/A	OK	N/A	No	OK
CONTAINER STORAGE AREA:											
	STILES STREET	N/A									
	CATOX Substation/bulbs	OK	OK	OK	N/A	OK	N/A	N/A	N/A	No	OK
RESIDUE STORAGE TANKS:											
	VT-621	16' 1" OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	VT-622	14' 1" OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
LOADING AREA/ACCUMULATION POINT:											
	WAREHOUSE #9	OK	OK	OK	OK	OK	OK	N/A	N/A	No	OK
UNLOADING AREA:	VAC Truck DECON PAD	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	Tracks 10&11 South	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK

REMARKS: IF EITHER SUMP A OR SUMP B IS GREATER THAN TWO FEET, THE SUMP WILL BE EMPTIED.

Plant Dumpsters

#	Dumpster Number	Date Generated	Remove By	Contents	Owner	Location	Comments
1	C40056			Asbestos		Behind Trash Compactor	
2	FCI-01129	01/31/07		Concrete		Roll Off Pad	
3	FCI-01140			Kiln Dust		Behind dispensory	
4	FCI-01141	07/05/07	06/19/08	Fiberglass/Wood		West of OX-501 Dike	
5	FCI-0166	07/31/07	07/15/08	Concrete/Asphalt		Roll Off Pad	
6	FCI-0406	07/31/07	07/15/08	Concrete/Asphalt		Track 10&11	
7	FCI-0460	04/02/07	03/17/08	Wood and Plastic		Roll Off Pad	
8	FCI-0470	11/15/06	10/31/07	Lumber/Wood		Roll-Off Pad	
9	FCI-0475			Empty		Roll-Off Pad	
10	FCI-0479	05/31/07	05/15/08	Concrete		Rool-Off Pad	
11	FCI-0519			Empty		Roll-Off Pad	
12	FCI-1320	08/13/07	07/28/08	Concrete		Unit #3 South	
13	FCI-9432	10/30/06	10/15/07	Concrete		Roll-Off Pad	
14	FCI-9495	08/16/06	08/01/07	Concrete		Roll-Off Pad	
15	FCI-9679	07/31/07	07/15/08	Concrete		Track 10&11	
16	FCI-9700	07/31/07	07/15/08	Concrete Asphalt		Roll-off pad	
17	FCI-9814	07/31/07	07/15/08	Concrete Asphalt		Roll-Off Pad	
18	FCI-9819			Empty		Roll-Off Pad	
19	FCI-9951	07/31/07	07/15/08	Concrete Asphalt		Roll-off pad	
20	FCI-9961	03/05/07	02/18/08	Wood and Plastic		Roll-off pad	

Monitoring Wells

	Well Number	Location	Status (at time of inspection)	Date (tank last emptied)
	MW202	South Side of Unit-3	Off	
	MW208	South of Air Stripper	On	
	MW210	South of Air Stripper	On	
	MW212	South of Air Stripper	On	
	MW205	East Side of #2 Tank Farm	On	
	MW218	West Side of #1 Tank Farm	On	
	MW219	West Side of #1 Tank Farm	On	

Attachment #7

DATE: 03/19/09

TO: Distribution

FROM: Adrienne DeFelice

SUBJECT: Weekly Hazardous Waste Management Inspection

INSPECTION DATE: March 19, 2009

90 DAY ACCUMULATION TANKS

Tank	Date Last Emptied	Due Date
VT-245	02/25/09	05/06/09
VT-130	03/12/09	05/21/09
VT-132	03/12/09	05/21/09
VT-602	01/31/09	04/11/09

BOILER TESTS (BIF)

Shutdown	Date Last Tested	Due Date
Residue Flow & Leak Test		
BL#1	Down	01/30/00
BL#2	03/05/09	04/04/09
CO ppmv/Software check		
BL#1	Down	01/07/00
BL#2	03/17/09	03/24/09
Residue Samples	03/12/09	06/10/09

Quarterly calibration error test (First Friday of Quarter)		
CO	02/26/09	05/27/09
NOx	02/26/09	05/27/09
O2	02/26/09	05/27/09
Opacity	02/26/09	05/27/09

STORAGE TANK HIGH LEVEL ALARM TEST

Tank	Date Last Tested	Due Date
VT-621	06/19/08	06/09/09
VT-622	06/19/08	06/09/09
VT-701	06/19/08	06/09/09

STORAGE TANK ANNUAL EMPTY

Tank	Date Last Emptied	Due Date	Source:
VT-621	02/25/09	01/26/10	flow through verififcation demonstration
VT-622	01/15/09	12/16/09	flow through verififcation demonstration

Annual Used Oil Sample from Maintenance Tote(s)

Last Taken	Take by
12/03/08	11/18/2009

Annual NPDES Inspection

Inspected	Inspect by
12/10/08	11/25/2009

Replace Acid Tote

Last change:	Internal Due Date to change:
10/26/2007	10/10/2008

(Leak Test)

Replace Carbon Drum on Wastewater Pits

Date:	Offline	Online	Due for change (internal limit 18 days)
Unit 2 Phenol Sump			
FN-200 A	3/5/09		
FN-200 B		3/5/09	3/23/09
Unit 2 Non-phenolic			
FN-201A		3/5/09	3/23/09
FN-201B	3/5/09		
Unit 3 Phenol Sump			
FN-300A	3/5/09		
FN-300B		3/5/09	3/23/09
Uni1 AMS Phenol Sump			
FN-106A	3/5/09		
FN-106B		3/5/09	3/23/09

HAZARDOUS & RESIDUAL WASTE MANAGEMENT ISS Updated during inspection on 3/19/2009

Department Responsible	Area	Issue	Action Taken (T) / Required (R)	Target Due Date	Person(s) contacted to correct problem
New Items Requiring Attention:					
Operations	Unit 3 Tank Farm	Tank Farm dikes unlocked and opened near VT-339	(R) Close and lock valves	3/20/2009	
Previous Items Remaining Open:					
Boiler House	VT-701 oil storage tote storeage area	Clean up all debris located in oil tote storage berm	(R) Clean up / dispose of junk in berm	3/20/2009	
Operations	Under 801/501 CAD Units	Some carbon and various misc debris needs to be cleaned up	(R) Sweep / clean up all carbon from under CAD beds	3/20/2009	
Maintenance	Lead-acid battery shed	No labels on batteries	Blank lables ordered by M Sweitzer	3/20/2009	
Eng / Maint	#6 fuel oil delivery area	Temporary containment berm needs maintenance	Scheduled to be removed	3/20/2009	
Operations	Unit 2 West Tank Accumulation Point	No plug on containment pallet.	(R) New containment dike to be ordered by M Sweitzer	3/20/2009	
Maintenance	Waste Battery Shed	Door off hinges	(R) Repair door	11/15/2008	WO order submitted
Maintenance	Waste Oil Tote Storage Area	Totes mislabeled or labels faded	(R) Develop stencil and label all totes with the words "USED OIL ONLY"	11/12/2008	WO submitted 11/7/08
Completed Items from Previous Inspection:					
Operations	Unit #3 East Tank Accumulation Point	Broken glass and caps on ground in entire area	Sweep/clean glass and caps around drum	Completed	

FRANKFORD PLANT HAZARDOUS WASTE INSPECTION FORM
PLACE "X" IF AREA IS DEFICIENT (MAKE COMMENTS BELOW)

INSPECTED BY: Adrienne DeFelice
DATE: 03/19/09
TIME: 9:00 AM

CONTAINER STORAGE INVENTORY	
Hazardous	72
Residual	88

		LEAKS FROM TANKS	DIKE CONDITION (CRACKS, HOLES, ETC.)	CONTAINER CONDITION (BULGING, RUST, LEAK, ETC.)	CONTAINER COVERED	PROPER LABELING (DATE, ID, ETC.)	ADEQUATE SODA ASH SUPPLY	REACTIVES IN SECTION B? ALL OTHERS IN SECTION A?	UNSHIPPED DRUMS IN WAREHOUSE	ANY SPILLS OF MATERIAL	PALLETS IN POOR CONDITION
UNIT NO. 2:											
	CHP FILTER AREAS	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	EAST PROCESS ACCUMULATION POINTS	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	WEST TANK ACCUMULATION POINTS	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	CL-220 STRAINERS	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	FEROME DRUM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	VT-245	Tank OOS	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	UNIT 2 TANK FARM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	TANK FARM DIKE VALVES	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
										No	
UNIT NO. 3:	CHP FILTER AREAS	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	EAST TANK ACCUMULATION POINTS	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	UNIT 3 TANK FARM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	TANK FARM DIKE VALVES	See Page 2	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	UNIT 3 PHENOL SLUDGE DRUM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
BOILERHOUSE:	BOILERHOUSE	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	LAB WASTE DRUMS	Inaccessible due to constru	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	VT-701 OIL TOTES CONTAINMENT VALVE	See Page 2	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
OTHER PLANT AREAS:											
	PR-2	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	PR-2 TANK FARM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	MAINTENANCE SHOP	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	AEROSOL DRUM IN MAINTENACE SHOP	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	MAINTENANCE YARD	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	VT-602	1'0"	ok	OK	OK	OK	N/A	N/A	N/A	No	OK
	VT-130	2' 1"	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	VT-132	5' 11"	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	STOREROOM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	SODIUM HYDROXIDE FILTER DRUM (OUTSIDE STORES)	Empty drum; no label	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	GARAGE(Firehouse)	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	ACETONE FILTERS @ HIGH PURITY TANK FARM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	UNIT 1 TANK FARM	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	TANK FARM DIKE VALVES	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	OX-801	See page 2	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	OX-501	See page 2	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	OX-401	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	LEAD ACID BATTERY SHED	See page 2	OK	OK	N/A	OK	N/A	N/A	N/A	No	OK
	DRUM PAD	OK	OK	ok	N/A	OK	N/A	OK	N/A	No	OK
	QC LAB SATELLITE STORAGE EAST	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	QC LAB SATELLITE STORAGE WEST	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
CONTAINER STORAGE AREA:											
	STILES STREET	N/A									
	CATOX SUBSTATION / BULBS	OK	OK	OK	N/A	OK	N/A	N/A	N/A	No	OK
RESIDUE STORAGE TANKS:											
	VT-621	Tank OOS for cleaning	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	VT-622	16' 7"	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
LOADING AREA/ACCUMULATION POINT:											
	WAREHOUSE #9	OK	OK	OK	OK	OK	OK	N/A		No	OK
UNLOADING AREA:	VAC TRUCK DECON PAD	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK
	TRACKS 10&11 SOUTH	OK	OK	OK	OK	OK	N/A	N/A	N/A	No	OK

REMARKS: IF EITHER SUMP A OR SUMP B IS GREATER THAN TWO FEET, THE SUMP WILL BE EMPTIED.

Monitoring Wells

	Well Number	Location	Status (at time of inspection)	Date (tank last emptied)
	MW205	East Side of #2 Tank Farm	On	
	MW218	West Side of #1 Tank Farm	On	
	MW219	West Side of #1 Tank Farm	On	

Plant Dumpsters

Updated during inspection on 3/19/2009

#	Dumpster Number	Date Generated	Remove By	Contents	Owner (Per Log Book)	Location	Comments
1	C40712			Asbestos		Behind Trash Compactor	
2	FCI-01140			Kiln Dust		Behind Dispensary	
3	FCI-0220	11/13/08	11/08/09	Concrete and Asphalt	H. Collins	Roll-Off Pad	
4	FCI-0522	11/12/08	01/21/09	Haz Soil	T. O'Dea	Roll-off Pad	
5	FCI-8923	01/06/09	01/01/10	Plant Trash/Debris	C. Pitt	Behind Admin Bldg	
6	FCI-0458	12/17/08	12/12/09	Non Haz wood and plastic	C. Pitt	Behind Dispensary	
7	FCI-0504			Empty		Cooling Tower 3	
8	FCI-9801	01/26/09	04/06/09	Hazardous Soil	R. Labonte	Roll-Off Pad	
9	FCI-9438	02/11/09	02/06/10	Concrete		Warehouse #9	
10	FCI-0823	No label		Wood/Plastic		W. Side Maintenace	
11	FCI-0222			Empty		Roll-Off Pad	
12	FCI-9867	03/17/09	05/26/09	Hazardous Soil	C. Pitt	Wakeling St. Near Ben and Bertha	

Attachment #8

Acetophenone

Flow Through

Assumed Size of Tank 514,934.55 lbs
Flow rate (FI5706 + FI5726) gph

One molecule of AP weighs 1.997x10-22lbs
AP density = 1.028 g/cm3
8.582242 lb/gal

	Day	AP in tank lbs	Dilute in tank lbs	Residue Flow to Blr gph	Residue Flow lbs/day	Dilute out lbs	AP out lbs	AP Conc. in tank	AP in tank ppm
1/1/2010	0	514,934.5455	0.00	891.404541	183,606.00	0.00	183,606.00	100.0000%	1,000,000
1/2/2010	1	331,328.55	183,606.00	866.513184	178,479.03	63,638.81	114,840.22	64.3438%	643,438.18
1/3/2010	2	216,488.33	298,446.22	863.854004	177,931.31	103,125.58	74,805.72	42.0419%	420,419.12
1/4/2010	3	141,682.60	373,251.94	826.912598	170,322.35	123,458.69	46,863.65	27.5147%	275,146.82
1/5/2010	4	94,818.95	420,115.59	561.09375	115,570.62	94,289.69	21,280.93	18.4138%	184,137.87
1/6/2010	5	73,538.02	441,396.52	550.568115	113,402.62	97,207.54	16,195.08	14.2810%	142,810.43
1/7/2010	6	57,342.95	457,591.60	303.696777	62,553.58	55,587.64	6,965.95	11.1360%	111,359.68
1/8/2010	7	50,377.00	464,557.55	623.649414	128,455.45	115,888.42	12,567.03	9.7832%	97,831.85
1/9/2010	8	37,809.97	477,124.58	791.984375	163,128.05	151,150.09	11,977.96	7.3427%	73,426.74
1/10/2010	9	25,832.00	489,102.54	789.038086	162,521.19	154,368.21	8,152.97	5.0166%	50,165.61
1/11/2010	10	17,679.03	497,255.52	759.130859	156,361.08	150,992.80	5,368.28	3.4333%	34,332.58
1/12/2010	11	12,310.75	502,623.79	676.884277	139,420.44	136,087.26	3,333.18	2.3907%	23,907.41
1/13/2010	12	8,977.57	505,956.98	692.10791	142,556.11	140,070.73	2,485.38	1.7434%	17,434.39
1/14/2010	13	6,492.19	508,442.35	691.044922	142,337.16	140,542.60	1,794.56	1.2608%	12,607.80
1/15/2010	14	4,697.63	510,236.91	579.554199	119,372.99	118,283.98	1,089.01	0.9123%	9,122.78
1/16/2010	15	3,608.62	511,325.93	654.012939	134,709.54	133,765.51	944.03	0.7008%	7,007.92
1/17/2010	16	2,664.59	512,269.96	655.607422	135,037.96	134,339.19	698.77	0.5175%	5,174.61
1/18/2010	17	1,965.82	512,968.73	651.734863	134,240.32	133,727.84	512.48	0.3818%	3,817.61
1/19/2010	18	1,453.34	513,481.20	679.758789	140,012.51	139,617.34	395.17	0.2822%	2,822.38
1/20/2010	19	1,058.17	513,876.37	661.477783	136,247.10	135,967.12	279.98	0.2055%	2,054.96
1/21/2010	20	778.19	514,156.36	903.611816	186,120.38	185,839.10	281.27	0.1511%	1,511.24
1/22/2010	21	496.92	514,437.63	1045.88647	215,425.23	215,217.34	207.89	0.0965%	965.01
1/23/2010	22	289.03	514,645.52	1050.92456	216,462.94	216,341.45	121.50	0.0561%	561.29
1/24/2010	23	167.53	514,767.02	1086.50903	223,792.41	223,719.60	72.81	0.0325%	325.34
1/25/2010	24	94.72	514,839.82	1063.73682	219,101.93	219,061.63	40.30	0.0184%	183.9475
1/26/2010	25	54.42	514,880.13	1051.04761	216,488.29	216,465.41	22.88	0.0106%	105.6788

	Day	AP in tank lbs	Dilute in tank lbs	Residue Flow to Blr gph	Residue Flow lbs/day	Dilute out lbs	AP out lbs	AP Conc. in tank	AP in tank ppm
1/27/2010	26	31.54	514,903.01	1069.03125	220,192.45	220,178.96	13.49	0.0061%	61.2494
1/28/2010	27	18.05	514,916.49	907.985107	187,021.16	187,014.60	6.56	0.0035%	35.0584
1/29/2010	28	11.50	514,923.05	908.472168	187,121.48	187,117.30	4.18	0.0022%	22.3254
1/30/2010	29	7.32	514,927.23	881.193359	181,502.76	181,500.18	2.58	0.0014%	14.2126
1/31/2010	30	4.74	514,929.81	865.306641	178,230.51	178,228.87	1.64	0.0009%	9.2030
2/1/2010	31	3.10	514,931.45	869.126221	179,017.25	179,016.17	1.08	0.0006%	6.0176
2/2/2010	32	2.02	514,932.52	878.906738	181,031.78	181,031.07	0.71	0.0004%	3.9256
2/3/2010	33	1.31	514,933.23	883.693604	182,017.75	182,017.28	0.46	0.0003%	2.5455
2/4/2010	34	0.85	514,933.70	964.637939	198,690.16	198,689.83	0.33	0.0002%	1.6457
2/5/2010	35	0.52	514,934.03	941.710205	193,967.65	193,967.45	0.20	0.0001%	1.0107
2/6/2010	36	0.32	514,934.22	856.252441	176,365.58	176,365.47	0.11	0.0001%	0.6300
2/7/2010	37	0.21	514,934.33	856.252441	176,365.58	176,365.51	0.07	0.0000%	0.4142
2/8/2010	38	0.14	514,934.41	874.420654	180,107.76	180,107.71	0.05	0.0000%	0.2723
2/9/2010	39	0.09	514,934.45	905.049072	186,416.41	186,416.38	0.03	0.0000%	0.1771
2/10/2010	40	0.06	514,934.49	873.745605	179,968.72	179,968.70	0.02	0.0000%	0.1130
2/11/2010	41	0.04	514,934.51	802.615967	165,317.88	165,317.86	0.01	0.0000%	0.0735
2/12/2010	42	0.03	514,934.52	881.398438	181,545.00	181,544.99	0.01	0.0000%	0.0499
2/13/2010	43	0.02	514,934.53	822.626465	169,439.51	169,439.51	0.01	0.0000%	0.0323
2/14/2010	44	0.01	514,934.53	812.933105	167,442.94	167,442.93	0.00	0.0000%	0.0217
2/15/2010	45	0.01	514,934.54	695.992432	143,356.22	143,356.22	0.00	0.0000%	0.0146
2/16/2010	46	0.01	514,934.54	634.783447	130,748.77	130,748.77	0.00	0.0000%	0.0106
2/17/2010	47	0.00	514,934.54	752.737549	155,044.23	155,044.23	0.00	0.0000%	0.0079
2/18/2010	48	0.00	514,934.54	829.756348	170,908.08	170,908.08	0.00	0.0000%	0.0055
2/19/2010	49	0.00	514,934.54	862.799561	177,714.12	177,714.12	0.00	0.0000%	0.0037
2/20/2010	50	0.00	514,934.54	890.41333	183,401.83	183,401.83	0.00	0.0000%	0.0024
2/21/2010	51	0.00	514,934.54	878.28125	180,902.94	180,902.94	0.00	0.0000%	0.0016
2/22/2010	52	0.00	514,934.54	878.568359	180,962.08	180,962.08	0.00	0.0000%	0.0010
2/23/2010	53	0.00	514,934.55	738.923828	152,198.96	152,198.96	0.00	0.0000%	0.0007
2/24/2010	54	0.00	514,934.55	714.18457	147,103.32	147,103.32	0.00	0.0000%	0.0005
2/25/2010	55	0.00	514,934.55	356.793213	73,490.06	73,490.06	0.00	0.0000%	0.0003
2/26/2010	56	0.00	514,934.55	922.928467	190,099.10	190,099.10	0.00	0.0000%	0.0003
2/27/2010	57	0.00	514,934.55	861.620361	177,471.24	177,471.24	0.00	0.0000%	0.0002
2/28/2010	58	0.00	514,934.55	839.162598	172,845.52	172,845.52	0.00	0.0000%	0.0001
3/1/2010	59	0.00	514,934.55	833.859619	171,753.25	171,753.25	0.00	0.0000%	7.72823E-05

	Day	AP in tank lbs	Dilute in tank lbs	Residue Flow to Blr gph	Residue Flow lbs/day	Dilute out lbs	AP out lbs	AP Conc. in tank	AP in tank ppm
3/2/2010	60	0.00	514,934.55	868.904053	178,971.49	178,971.49	0.00	0.0000%	5.15052E-05
3/3/2010	61	0.00	514,934.55	864.973389	178,161.87	178,161.87	0.00	0.0000%	3.3604E-05
3/4/2010	62	0.00	514,934.55	865.260498	178,221.01	178,221.01	0.00	0.0000%	2.19774E-05
3/5/2010	63	0.00	514,934.55	861.001709	177,343.81	177,343.81	0.00	0.0000%	1.43709E-05
3/6/2010	64	0.00	514,934.55	756.687012	155,857.71	155,857.71	0.00	0.0000%	9.42156E-06
3/7/2010	65	0.00	514,934.55	757.621826	156,050.26	156,050.26	0.00	0.0000%	6.56989E-06
3/8/2010	66	0.00	514,934.55	789.6875	162,654.95	162,654.95	0.00	0.0000%	4.57889E-06
3/9/2010	67	0.00	514,934.55	767.364746	158,057.05	158,057.05	0.00	0.0000%	3.13254E-06
3/10/2010	68	0.00	514,934.55	760.007568	156,541.66	156,541.66	0.00	0.0000%	2.17102E-06
3/11/2010	69	0.00	514,934.55	793.231934	163,385.01	163,385.01	0.00	0.0000%	1.51102E-06
3/12/2010	70	0.00	514,934.55	762.500977	157,055.24	157,055.24	0.00	0.0000%	1.03159E-06
3/13/2010	71	0.00	514,934.55	892.038757	183,736.63	183,736.63	0.00	0.0000%	7.16951E-07
3/14/2010	72	0.00	514,934.55	936.802063	192,956.70	192,956.70	0.00	0.0000%	4.61132E-07
3/15/2010	73	0.00	514,934.55	934.164978	192,413.53	192,413.53	0.00	0.0000%	2.88336E-07
3/16/2010	74	0.00	514,934.55	936.30658	192,854.64	192,854.64	0.00	0.0000%	1.80595E-07
3/17/2010	75	0.00	514,934.55	955.951172	196,900.91	196,900.91	0.00	0.0000%	1.12958E-07
3/18/2010	76	0.00	514,934.55	963.586304	198,473.55	198,473.55	0.00	0.0000%	6.9765E-08
3/19/2010	77	0.00	514,934.55	1109.15051	228,455.97	228,455.97	0.00	0.0000%	4.28752E-08
3/20/2010	78	0.00	514,934.55	1069.49878	220,288.75	220,288.75	0.00	0.0000%	2.38532E-08
3/21/2010	79	0.00	514,934.55	1045.37903	215,320.71	215,320.71	0.00	0.0000%	1.36488E-08
3/22/2010	80	0.00	514,934.55	1046.51306	215,554.29	215,554.29	0.00	0.0000%	7.94153E-09
3/23/2010	81	0.00	514,934.55	1048.58167	215,980.37	215,980.37	0.00	0.0000%	4.61716E-09
3/24/2010	82	0.00	514,934.55	806.642822	166,147.30	166,147.30	0.00	0.0000%	2.68057E-09
3/25/2010	83	0.00	514,934.55	862.306824	177,612.63	177,612.63	0.00	0.0000%	1.81567E-09
3/26/2010	84	0.00	514,934.55	919.007874	189,291.56	189,291.56	0.00	0.0000%	1.1894E-09
3/27/2010	85	0.00	514,934.55	929.628418	191,479.11	191,479.11	0.00	0.0000%	7.52174E-10
3/28/2010	86	0.00	514,934.55	934.453796	192,473.02	192,473.02	0.00	0.0000%	4.72477E-10
3/29/2010	87	0.00	514,934.55	1059.45471	218,219.93	218,219.93	0.00	0.0000%	2.95874E-10
3/30/2010	88	0.00	514,934.55	1067.55066	219,887.49	219,887.49	0.00	0.0000%	1.70488E-10
3/31/2010	89	0.00	514,934.55	1066.97998	219,769.94	219,769.94	0.00	0.0000%	9.76862E-11
4/1/2010	90	0.00	514,934.55	979.609741	201,773.96	201,773.96	0.00	0.0000%	5.59945E-11
4/2/2010	91	0.00	514,934.55	980.140869	201,883.36	201,883.36	0.00	0.0000%	3.40534E-11
4/3/2010	92	0.00	514,934.55	935.982605	192,787.91	192,787.91	0.00	0.0000%	2.07025E-11
4/4/2010	93	0.00	514,934.55	917.493225	188,979.58	188,979.58	0.00	0.0000%	1.29517E-11

	Day	AP in tank lbs	Dilute in tank lbs	Residue Flow to Blr gph	Residue Flow lbs/day	Dilute out lbs	AP out lbs	AP Conc. in tank	AP in tank ppm
4/5/2010	94	0.00	514,934.55	901.463135	185,677.80	185,677.80	0.00	0.0000%	8.19843E-12
4/6/2010	95	0.00	514,934.55	871.95282	179,599.45	179,599.45	0.00	0.0000%	5.2422E-12
4/7/2010	96	0.00	514,934.55	808.97699	166,628.08	166,628.08	0.00	0.0000%	3.41382E-12
4/8/2010	97	0.00	514,934.55	694.406311	143,029.52	143,029.52	0.00	0.0000%	2.30914E-12
4/9/2010	98	0.00	514,934.55	932.405457	192,051.11	192,051.11	0.00	0.0000%	1.66775E-12
4/10/2010	99	0.00	514,934.55	941.021362	193,825.76	193,825.76	0.00	0.0000%	1.04574E-12
4/11/2010	100	0.00	514,934.55	1061.8606	218,715.48	218,715.48	0.00	0.0000%	6.52115E-13
4/12/2010	101	0.00	514,934.55	1031.35181	212,431.47	212,431.47	0.00	0.0000%	3.75133E-13
4/13/2010	102	0.00	514,934.55	915.651733	188,600.28	188,600.28	0.00	0.0000%	2.20375E-13
4/14/2010	103	0.00	514,934.55	877.502197	180,742.48	180,742.48	0.00	0.0000%	1.3966E-13
4/15/2010	104	0.00	514,934.55	867.946533	178,774.26	178,774.26	0.00	0.0000%	9.06395E-14
4/16/2010	105	0.00	514,934.55	734.832581	151,356.27	151,356.27	0.00	0.0000%	5.91714E-14
4/17/2010	106	0.00	514,934.55	942.515564	194,133.53	194,133.53	0.00	0.0000%	4.1779E-14
4/18/2010	107	0.00	514,934.55	775.781189	159,790.61	159,790.61	0.00	0.0000%	2.6028E-14
4/19/2010	108	0.00	514,934.55	770.008972	158,601.69	158,601.69	0.00	0.0000%	1.79512E-14
4/20/2010	109	0.00	514,934.55	829.323669	170,818.96	170,818.96	0.00	0.0000%	1.24222E-14
4/21/2010	110	0.00	514,934.55	827.742126	170,493.21	170,493.21	0.00	0.0000%	8.30137E-15
4/22/2010	111	0.00	514,934.55	820.533508	169,008.42	169,008.42	0.00	0.0000%	5.55281E-15
4/23/2010	112	0.00	514,934.55	825.228333	169,975.43	169,975.43	0.00	0.0000%	3.73031E-15
4/24/2010	113	0.00	514,934.55	821.366821	169,180.06	169,180.06	0.00	0.0000%	2.49896E-15
4/25/2010	114	0.00	514,934.55	776.54657	159,948.26	159,948.26	0.00	0.0000%	1.67794E-15
4/26/2010	115	0.00	514,934.55	496.936768	102,355.96	102,355.96	0.00	0.0000%	1.15674E-15
4/27/2010	116	0.00	514,934.55	452.009277	93,102.08	93,102.08	0.00	0.0000%	9.26809E-16
4/28/2010	117	0.00	514,934.55	503.603516	103,729.14	103,729.14	0.00	0.0000%	7.59238E-16
4/29/2010	118	0.00	514,934.55	704.204102	145,047.61	145,047.61	0.00	0.0000%	6.06296E-16
4/30/2010	119	0.00	514,934.55	818.538574	168,597.52	168,597.52	0.00	0.0000%	4.35514E-16
5/1/2010	120	0.00	514,934.55	792.257813	163,184.37	163,184.37	0.00	0.0000%	2.9292E-16
5/2/2010	121	0.00	514,934.55	824.075684	169,738.02	169,738.02	0.00	0.0000%	2.00093E-16
5/3/2010	122	0.00	514,934.55	785.491943	161,790.77	161,790.77	0.00	0.0000%	1.34136E-16
5/4/2010	123	0.00	514,934.55	739.057129	152,226.42	152,226.42	0.00	0.0000%	9.19909E-17
5/5/2010	124	0.00	514,934.55	892.269287	183,784.11	183,784.11	0.00	0.0000%	6.47963E-17
5/6/2010	125	0.00	514,934.55	796.453369	164,048.54	164,048.54	0.00	0.0000%	4.167E-17
5/7/2010	126	0.00	514,934.55	916.805176	188,837.86	188,837.86	0.00	0.0000%	2.83947E-17
5/8/2010	127	0.00	514,934.55	942.723633	194,176.39	194,176.39	0.00	0.0000%	1.79817E-17

	Day	AP in tank	Dilute in tank	Residue Flow to Blr	Residue Flow	Dilute out	AP out	AP Conc. in tank	AP in tank ppm
		lbs	lbs	gph	lbs/day	lbs	lbs		
5/9/2010	128	0.00	514,934.55	370.825684	76,380.38	76,380.38	0.00	0.0000%	1.1201E-17
5/10/2010	129	0.00	514,934.55	931.957031	191,958.75	191,958.75	0.00	0.0000%	9.53957E-18
5/11/2010	130	0.00	514,934.55	739.417725	152,300.69	152,300.69	0.00	0.0000%	5.98338E-18
5/12/2010	131	0.00	514,934.55	825.207031	169,971.04	169,971.04	0.00	0.0000%	4.21369E-18
5/13/2010	132	0.00	514,934.55	861.610107	177,469.12	177,469.12	0.00	0.0000%	2.82283E-18
5/14/2010	133	0.00	514,934.55	841.779053	173,384.45	173,384.45	0.00	0.0000%	1.84996E-18
5/15/2010	134	0.00	514,934.55	784.283691	161,541.91	161,541.91	0.00	0.0000%	1.22705E-18
5/16/2010	135	0.00	514,934.55	584.000977	120,288.91	120,288.91	0.00	0.0000%	8.42111E-19
5/17/2010	136	0.00	514,934.55	580.502686	119,568.35	119,568.35	0.00	0.0000%	6.45393E-19
5/18/2010	137	0.00	514,934.55	663.343994	136,631.50	136,631.50	0.00	0.0000%	4.95532E-19
5/19/2010	138	0.00	514,934.55	1014.15063	208,888.48	208,888.48	0.00	0.0000%	3.64049E-19
5/20/2010	139	0.00	514,934.55	1340.45213	276,098.04	276,098.04	0.00	0.0000%	2.16369E-19
5/21/2010	140	0.00	514,934.55	1401.67487	288,708.32	288,708.32	0.00	0.0000%	1.00356E-19
5/22/2010	141	0.00	514,934.55	1467.6763	302,302.89	302,302.89	0.00	0.0000%	4.40894E-20
5/23/2010	142	0.00	514,934.55	1258.48251	259,214.45	259,214.45	0.00	0.0000%	1.82058E-20
5/24/2010	143	0.00	514,934.55	1188.16809	244,731.52	244,731.52	0.00	0.0000%	9.04113E-21
5/25/2010	144	0.00	514,934.55	873.18689	179,853.64	179,853.64	0.00	0.0000%	4.74418E-21
5/26/2010	145	0.00	514,934.55	1360.88278	280,306.22	280,306.22	0.00	0.0000%	3.08716E-21
5/27/2010	146	0.00	514,934.55	1165.01651	239,962.90	239,962.90	0.00	0.0000%	1.40665E-21
5/28/2010	147	0.00	514,934.55	1066.98926	219,771.85	219,771.85	0.00	0.0000%	7.51144E-22
5/29/2010	148	0.00	514,934.55	866.201782	178,414.89	178,414.89	0.00	0.0000%	4.30559E-22
5/30/2010	149	0.00	514,934.55	650.716064	134,030.47	134,030.47	0.00	0.0000%	2.81378E-22
5/31/2010	150	0.00	514,934.55	611.278381	125,907.34	125,907.34	0.00	0.0000%	2.08139E-22
6/1/2010	151	0.00	514,934.55	613.630981	126,391.92	126,391.92	0.00	0.0000%	1.57247E-22
6/2/2010	152	0.00	514,934.55	646.442383	133,150.21	133,150.21	0.00	0.0000%	1.1865E-22
6/3/2010	153	0.00	514,934.55	852.078918	175,505.95	175,505.95	0.00	0.0000%	8.79701E-23
6/4/2010	154	0.00	514,934.55	840.547546	173,130.79	173,130.79	0.00	0.0000%	5.79871E-23
6/5/2010	155	0.00	514,934.55	823.858032	169,693.18	169,693.18	0.00	0.0000%	3.84907E-23
6/6/2010	156	0.00	514,934.55	1037.26318	213,649.06	213,649.06	0.00	0.0000%	2.58064E-23
6/7/2010	157	0.00	514,934.55	1065.65698	219,497.44	219,497.44	0.00	0.0000%	1.50992E-23
6/8/2010	158	0.00	514,934.55	1061.1969	218,578.78	218,578.78	0.00	0.0000%	8.66296E-24
6/9/2010	159	0.00	514,934.55	1054.32654	217,163.66	217,163.66	0.00	0.0000%	4.98572E-24
6/10/2010	160	0.00	514,934.55	932.324951	192,034.53	192,034.53	0.00	0.0000%	2.88309E-24
6/11/2010	161	0.00	514,934.55	1138.36584	234,473.56	234,473.56	0.00	0.0000%	1.8079E-24

	Day	AP in tank	Dilute in tank	Residue Flow to Blr	Residue Flow	Dilute out	AP out	AP Conc. in tank	AP in tank ppm
		lbs	lbs	gph	lbs/day	lbs	lbs		
6/12/2010	162	0.00	514,934.55	1176.48267	242,324.63	242,324.63	0.00	0.0000%	9.84678E-25
6/13/2010	163	0.00	514,934.55	1071.40308	220,680.98	220,680.98	0.00	0.0000%	5.21296E-25
6/14/2010	164	0.00	514,934.55	1033.27576	212,827.75	212,827.75	0.00	0.0000%	2.97888E-25
6/15/2010	165	0.00	514,934.55	1097.49463	226,055.16	226,055.16	0.00	0.0000%	1.74768E-25
6/16/2010	166	0.00	514,934.55	1117.60779	230,197.94	230,197.94	0.00	0.0000%	9.80453E-26
6/17/2010	167	0.00	514,934.55	1114.96497	229,653.59	229,653.59	0.00	0.0000%	5.42148E-26
6/18/2010	168	0.00	514,934.55	1055.06726	217,316.23	217,316.23	0.00	0.0000%	3.00358E-26
6/19/2010	169	0.00	514,934.55	922.881531	190,089.43	190,089.43	0.00	0.0000%	1.73599E-26
6/20/2010	170	0.00	514,934.55	906.076294	186,627.99	186,627.99	0.00	0.0000%	1.09514E-26
6/21/2010	171	0.00	514,934.55	818.307678	168,549.96	168,549.96	0.00	0.0000%	6.98229E-27
6/22/2010	172	0.00	514,934.55	889.664124	183,247.52	183,247.52	0.00	0.0000%	4.69683E-27
6/23/2010	173	0.00	514,934.55	834.013062	171,784.85	171,784.85	0.00	0.0000%	3.02539E-27
6/24/2010	174	0.00	514,934.55	852.242981	175,539.74	175,539.74	0.00	0.0000%	2.0161E-27
6/25/2010	175	0.00	514,934.55	899.142883	185,199.89	185,199.89	0.00	0.0000%	1.32882E-27
6/26/2010	176	0.00	514,934.55	799.173035	164,608.72	164,608.72	0.00	0.0000%	8.509E-28
6/27/2010	177	0.00	514,934.55	846.550049	174,367.15	174,367.15	0.00	0.0000%	5.78893E-28
6/28/2010	178	0.00	514,934.55	885.642761	182,419.22	182,419.22	0.00	0.0000%	3.82868E-28
6/29/2010	179	0.00	514,934.55	880.660522	181,393.01	181,393.01	0.00	0.0000%	2.47235E-28
6/30/2010	180	0.00	514,934.55	1077.67676	221,973.20	221,973.20	0.00	0.0000%	1.60143E-28

Attachment #9

CITY OF PHILADELPHIA

DEPARTMENT OF PUBLIC HEALTH
Donald F. Schwarz, MD, MPH
Deputy Mayor for Health & Opportunity
Health Commissioner

Nan Feyler, JD, MPH
Chief of Staff

Air Management Services
Thomas Huynh
Director

Source Registration
321 University Avenue, 2nd Floor
Philadelphia, PA 19104

Telephone (215) 685-7572
Fax (215) 685-7593

June 28, 2010

Mr. Paul Persing
Sunoco, Inc.
Margaret & Bermuda Streets
Philadelphia, PA 19137-1193

PLID: 1551

RE: MACT Subpart EEE CPT Report for Boilers 1 and 2

Dear Mr. Persing,

The 40 CFR 63 Subpart EEE Comprehensive Performance Test (CPT) Report for Boilers 1 and 2 is acceptable to Air Management Services. The results show the following (emission limits from 40 CFR 63.1217(a) and (c)(1)):

Pollutant	Test Results	Emission Limit
Dioxins and Furans[1]	1.0E-04[2]	Comply with CO or HC limit
Mercury	3.2E-07 lbs/MMBTU[2]	4.2E-05 lbs/MMBTU
Semivolatile Metals (Cd + Pb)	1.7E-06 lbs/MMBTU[2]	8.2E-05 lbs/MMBTU
Chromium	3.1E-05 lbs/MMBTU[2]	1.3E-04 lbs/MMBTU
Carbon Monoxide	1.55 ppmv[3]	100 ppmv
Hydrocarbons	0.67 ppmv[3]	10 ppmv
HCl + Chlorine	9.0E-04 lbs/MMBTU[2]	5.1E-02 lbs/MMBTU
Particulate Matter	26.4[3]	80 mg/dscm @ 7% O2
MCB Destruction Efficiency	>99.9996%[3]	99.99%
Phenol Destruction Efficiency	99.99980%[3]	99.99%

[1]Initial test required under 40 CFR 63.1207(a)(3). The higher emission condition is listed.
[2]From July 2005 BIF Trial Burn, approved for Subpart EEE compliance test.
[3]From March 2009 performance test.

The results show that Sunoco was in compliance with all of the emission limits.

Attachment #10

Macromedia Flash Player 7.0

RCRA Waste Management

- **WHAT IS HAZARDOUS WASTE?**
- in sufficient quantities and concentrations, pose a threat to human life, human health, or the environment when improperly stored, transported, treated or disposed.
- Regulations rely on a list of over 600 specific wastes. (Listed Waste- P, U, K, or F Codes)
- Other wastes are designated "hazardous" if they contain a characteristics. (Characteristic Waste – D code)

Hazardous Waste Classification Process

1) Listed Waste - a specific list of wastes from specific processes
   4 different lists:
   a) F list - common process wastes in various industries
   b) K list - specific wastes from specific industries
      ex: phenol residue - K022
   c) P list } discarded, unused commercial grade chemical
   d) U list } products
      ex: unused chemicals from spills, off spec
2) Characteristic Waste - has properties
   a) Ignitable
   b) Corrosive
   c) Reactive
   d) Toxic
   D Coded Waste

RCRA Waste Management

- **Characteristic Wastes are:**
  - **IGNITABLE** - combustible under certain conditions
  - **CORROSIVE** - highly acidic, basic and/or capable of corroding metal
  - **REACTIVE** - unstable under normal conditions and capable of creating explosions and/or toxic fumes, gases, and vapors when mixed with water
  - **TOXIC** - harmful or fatal when ingested or absorbed

Listed Hazardous Waste

I. Most common plant "Listed" waste in the plant is Phenol Residue

II. Have a "**K022**" waste code on H. W. label.

III. Examples of other listed wastes:
   1. Boiler Brick & Ash: Boilers #1 & #2
   2. Residue Rags: Boilers #1 & #2
   3. Phenol Residue Sludge

IV. Must have "Poison" diamond on drum.

Characteristic Hazardous Waste

"Ignitable" Wastes - "Flammable Solids / Liquids"

I. Have a "**D001**" waste code on label.

II. Examples from this plant:
1. Acetone Solids - Includes Filters & Sludge
2. AMS Filters / Sludge
3. Cumene Sludge

III. Liquid: Flash Point < 140 deg F
Solid: Spontaneous then burn Vigorously
Gas: Compressed, Ignitable Gas

Characteristic Hazardous Waste

"Corrosive" Wastes - "Corrosive Liquids / Solids"

I. Have a "**D002**" waste code on H.W. label.

II. Examples from this plant:
1. Caustic Filters
2. Sulfuric Acid Tank Cleanout (Sludge & PPE)

III. Aqueous: pH <=2 or pH >=12.5
Liquid: Corrodes metals at a specific rate.

Characteristic Hazardous Waste

"Reactive" Wastes - "Waste Organic Peroxide"

I. Have a "**D003**" waste code on H.W. label.

II. Examples from this plant:
1. CHP Filters
2. CHP spill cleanup material

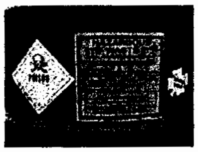
III. Unstable - Undergoes Violent Changes
Reacts with water
Cyanide / Sulfide Bearing
Explosive

PaDEP Waste Management

- WHAT IS RESIDUAL WASTE?
- Residual waste is nonhazardous industrial waste. It includes waste material (solid, liquid or gas) produced by industrial, mining and agricultural operations. It excludes certain coal mining wastes and wastes from normal farming activities.
- EXAMPLES:
  - SOIL (Non-haz)

Waste Management

- Drummed waste handled as either residual or hazardous waste
- Both types of waste will always have:
  - Label
  - Drum number
  - Date on label when moved to drum park
- Residual waste
  - May have DOT sticker if DOT shipping name is completed on waste label
- Hazardous Waste
  - Always has DOT sticker

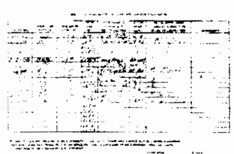


Drum Handling Procedure

1. Request empty drum from Drum Handler
2. Ensure drum is not corroded
3. Obtain correct labels from either routine waste stream labels at the foreman's office or contact Environmental Department for labels for non-routine waste
4. Log drum into log book

Drum Logging Procedure

5. Enter next sequential drum number in Waste Drum Logbook (Located outside Foreman's office)
   1. Date
   2. Operator Initials
   3. Type of Drum 17H (open top)/17E (sealed top)
   4. Waste Type
   5. Plant Location where drum is stored



6. Fill in column for your initials and date for moving to accumulation area only after drum is full and ready to be moved to the drum park

WASTE DRUM ACTIVITY LOG (USE ONE LINE FOR EACH DRUM)

DATE/TIME	OPERATOR INITIALS	TYPE DRUM (17H/17E)	DRUM LABEL NO.	TYPE/SOURCE OF WASTE TO BE COLLECTED	ACCUM AREA IDENT	INITIAL/DATE DRUM LABELED & READY TO MOVE TO DRUM PARK	COMMENTS
2-1-00	Tjp	17E	6081	Spent [illegible]	B/H		
2/1/00	RC	17H	6082	[illegible]	118 [illegible]	RC 2/2/00	
"	"	"	6083	"	"	"	
"	"	"	6084	"	"	"	
2-2-00	[illegible]	17H	6085	OILY RAGS	[illegible]		
2/2/00	[illegible]	17E	6086	CHIPS + TAGS	[illegible]		
2/3/00	RC	17H	6087	[illegible]	118 [illegible]	RC 2/3/00	
2/4/00	[illegible]	17H	6088	[illegible]	PR2		
2/4/00	JLC	17H	6089	[illegible]	[illegible]	JLC	
"	JLC	"	6090	[illegible]	[illegible]	JLC	
[illegible]	[illegible]	17H	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	6092	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	17H	6093	[illegible]	[illegible]	[illegible]	
"	"	"	6094	"	"	"	
"	"	"	6095	"	"	"	
"	"	"	6096	"	"	"	
"	"	"	6097	"	"	"	
"	"	"	6098	"	"	"	
"	"	"	[illegible]	"	"	"	

NOTES: (1) ALL DRUMS ARE TO BE ACCOUNTED FOR. (2) IF DRUMS ARE SIGNED OUT BUT REMAIN UNUSED, THEY ARE TO BE RETURNED TO THE WAREHOUSE. THE LABELS ARE TO BE REMOVED; AND THE DRUM ENTRIES ARE TO BE VOIDED WITH A COMMENT.

FORM #638 5/18/92
REVISED 3/8/96
REVISION #02

Drum Logging Procedure (continued)

7. Folders have appropriate labels and DOT labels for each routine plant waste types.
8. Place drum # on Haz Waste or Residual Waste label (Very Important!)
   (Use Black "Sharpie" Marker – Not ball point pens)
9. Place appropriate DOT "Diamond" on drum. DOT diamond labels need to be clean, no markings, and whole with no torn corners.
10. Be sure to use plastic "bag" liners

Existing drum:

11. Tighten and secure lid when drum is filled.
12. Place "**Thank You**" sticker on drum when filled. (Must have at least 2 inches of "head space") This will tell the drum handler that it is set to be moved to drum park

Drum Handling (Cont.)

13. Place date on label.
    (**Use Black "Sharpie" Permanent Ink Marker**)

14. Go back to drum log book at Foreman's office and look up drum number. Put your initials and date in log book for when drum is full and ready to be moved to drum park

- **If you have any questions or concerns about this CBL.**
- **Please contact:**
- **Environmental Department**
- **215 – 807 - 8442**

Roll-Offs Management

Introduction

- At Frankford Plant, roll-offs are used to accumulate large quantities of solid waste (e.g., excavated earth, debris, boiler bricks, etc.) generated during a construction project or maintenance activities.
- Typical waste stored in the roll-offs is Residual or Hazardous waste which is regulated by the state and federal rules and standards.
- Roll-offs meet the definition of containers under the state and federal rules.
- Hence, accumulation of residual and hazardous waste in roll-offs should follow the state and federal requirements for management of residual and hazardous waste in containers.

Roll-Off Management Procedure

- This procedure is prepared to outline the Frankford Plant's process of:
  - Acquiring roll-offs to collect waste
  - Managing roll-offs while on job site
  - Preparing roll-offs for off-site shipment
- The process defined in this procedure follows the state and federal requirements for accumulation of residual and hazardous waste in containers.

Roll-offs Management Procedure

- **This procedure is available at the Frankford HES site at S@W under Environmental Waste procedures.**
- **It can be accessed by clicking on the button link below.**
- **Please read this procedure and take the test to complete the training.**

CLICK HERE NOW to Link to the Procedure

Frankford Plant Universal Waste Management

Mercury-containing Bulbs

Employee/Handler Training

1

Introduction

- **Universal Waste** is hazardous waste that is produced by a variety of businesses and institutions, not just in traditional industrial settings. Many of these wastes have been improperly managed in the past by being sent to solid waste landfills.
- The goal of the universal waste regulations is to improve the poor management of hazardous wastes.
- Universal wastes include:
  - Mercury-containing thermometers and thermostats
  - Rechargeable batteries/Lead-acid batteries/Mercury-containing batteries/Lithium batteries
  - Mercury-containing lamps (fluorescent light tubes and high intensity discharge (HID) lamps)

2

Agenda

•This training will focus on the proper disposal of Mercury-containing lamps (fluorescent light tubes and high intensity discharge (HID) lamps).

3

Labeling Universal Waste

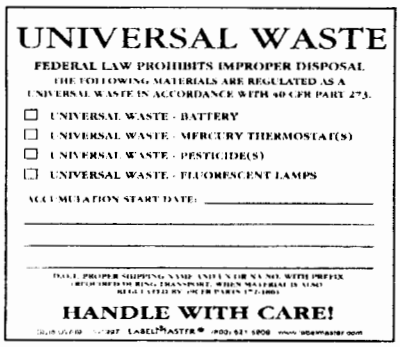
•Universal waste can be stored on-site for a period of 1 year.

•If universal waste is stored in a container, 1 label is sufficient for the waste inside of the container.

•The date must be written on the label when the first piece of waste is placed in a container.

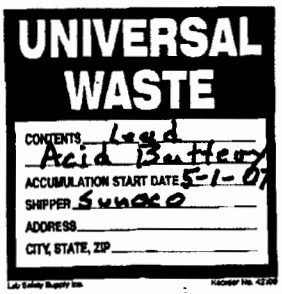
4

One Example of a Universal Waste Label



5

Another Example of a Universal Waste Label



6

Storing Universal Waste

Mercury-containing Bulbs

- The I&E Department will manage the disposal of fluorescent bulbs.
- All fluorescent bulbs **must** be disposed of the in the containers in the CATOX substation.
  - The CATOX substation is the only acceptable place in the plant to dispose of fluorescent bulbs.
- If the fluorescent bulb has green writing stamped on it or has the word "Ecolux," then the bulb is considered to be "green" or environmentally friendly and does not need to be handled as a universal waste.

7

- If you have questions about universal waste disposal, contact the Environmental Department at extension 8518.

8

Attachment #11

Custom Report - Selected Employees

atr

There are 1093 training records for the selected criteria.

Period 29 Sep 2008 To 29 Sep 2010

Employee: SULLIVAN, JACLYN ID Number: Z15JRS

Curriculum Name	Course Name	Task Name	Task Type	Status	Completed Date	Grade
Direct Course						
	FRK - EPA Universal Waste 40CFR273		Course Status: Completed			
		FRK - EPA Universal Waste	Challenge Test	Completed	01 Feb 2010	80

Employee: Sweitzer, Mark ID Number: z17mas

Curriculum Name	Course Name	Task Name	Task Type	Status	Completed Date	Grade
Direct Course						
	FRK - ENV - NPDES - RCRA Waste Management		Course Status: Completed			
		FRK - ENV - NPDES RCRA Waste Management	CBL	Completed	20 Oct 2008	
		FRK - ENV - NPDES RCRA Waste Management	CBL	Manually Exempted	20 Oct 2008	
		FRK - NPDES - SARA - RCRA Waste Management	Challenge Test	Completed	20 Oct 2008	100
		FRK - NPDES - SARA - RCRA Waste Management	Challenge Test	Manually Exempted	20 Oct 2008	
	FRK - EPA Universal Waste 40CFR273		Course Status: Completed			
		FRK-EPA Universal Waste 40CFR273	CBL	Completed	02 Apr 2009	
		FRK-EPA Universal Waste 40CFR273	CBL	Completed	17 Oct 2008	
		FRK-EPA Universal Waste 40CFR273	CBL	Completed	11 Mar 2010	
		FRK - EPA Universal Waste	Challenge Test	Completed	02 Apr 2009	100
		FRK - EPA Universal Waste	Challenge Test	Completed	17 Oct 2008	100
		FRK - EPA Universal Waste	Challenge Test	Completed	11 Mar 2010	100

Employee: TARRANT, CATHERINE E ID Number: Z01CET

Curriculum Name	Course Name	Task Name	Task Type	Status	Completed Date	Grade
Direct Course						
	FRK - EPA Universal Waste 40CFR273		Course Status: Completed			
		FRK-EPA Universal Waste 40CFR273	CBL	Completed	21 Mar 2009	
		FRK-EPA Universal Waste 40CFR273	CBL	Completed	23 Jan 2010	
		FRK - EPA Universal Waste	Challenge Test	Completed	21 Mar 2009	100

Custom Report - Selected Employees

atr

There are 310 training records for the selected criteria.

Period 28 Sep 2009 To 28 Sep 2010

Employee: STOFEY, HUYEN N ID Number: Z01HXN

Curriculum Name	Course Name	Task Name	Task Type	Status	Completed Date	Grade
FRK-CHM-EPA 40 CFR 262.34 265.16 RCRA			Curriculum Status: Completed			
	CHM EPA 40 CFR 262.34 265.16 RCRA					
		CHM-T EPA 40 CFR 262.34 265.16 RCRA	Challenge Test	Completed	01 Jan 2010	80

Employee: SULLIVAN, JACLYN ID Number: Z15JRS

Curriculum Name	Course Name	Task Name	Task Type	Status	Completed Date	Grade
FRK-CHM-EPA 40 CFR 262.34 265.16 RCRA			Curriculum Status: Completed			
	CHM EPA 40 CFR 262.34 265.16 RCRA					
		CHM-CBL EPA 40 CFR 262.34 265.16 RCRA	CBL	Completed	01 Feb 2010	
		CHM-T EPA 40 CFR 262.34 265.16 RCRA	Challenge Test	Completed	01 Feb 2010	100

Employee: Sweitzer, Mark ID Number: z17mas

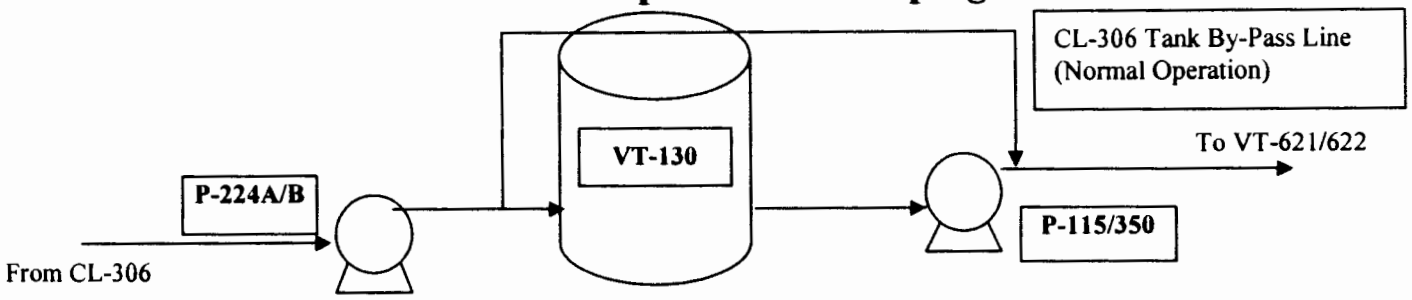
Curriculum Name	Course Name	Task Name	Task Type	Status	Completed Date	Grade
FRK-CHM-EPA 40 CFR 262.34 265.16 RCRA			Curriculum Status: Completed			
	CHM EPA 40 CFR 262.34 265.16 RCRA					
		CHM-CBL EPA 40 CFR 262.34 265.16 RCRA	CBL	Completed	22 Feb 2010	
		CHM-T EPA 40 CFR 262.34 265.16 RCRA	Challenge Test	Completed	22 Feb 2010	90

Employee: TARRANT, CATHERINE E ID Number: Z01CET

Curriculum Name	Course Name	Task Name	Task Type	Status	Completed Date	Grade
FRK-CHM-EPA 40 CFR 262.34 265.16 RCRA			Curriculum Status: Completed			
	CHM EPA 40 CFR 262.34 265.16 RCRA					
		CHM-CBL EPA 40 CFR 262.34 265.16 RCRA	CBL	Completed	23 Jan 2010	
		CHM-T EPA 40 CFR 262.34 265.16 RCRA	Challenge Test	Completed	23 Jan 2010	100

Attachment #12

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-130



Note: This tank (VT-130) must be pumped completely empty every sixty(60) days.

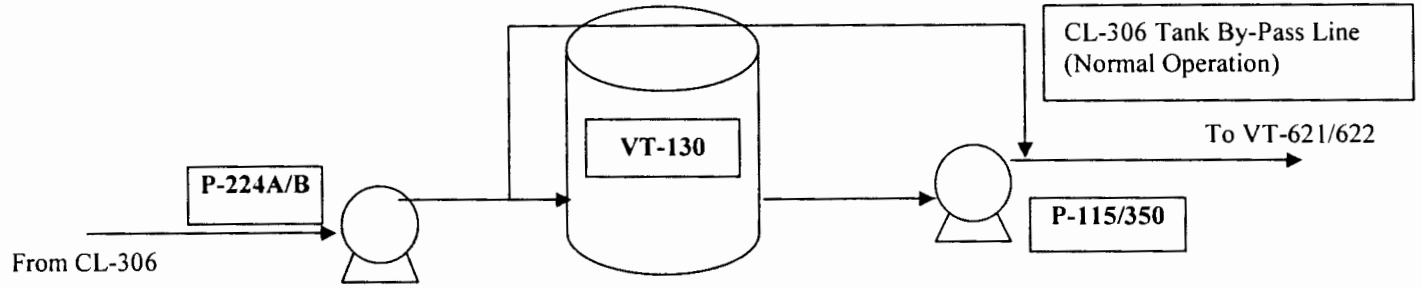
All Yes and No need to be completed

Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	(Yes) No	
Tank Valves & Piping	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	(Yes) No	
Outlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	(Yes) No	

Area Inspected By: _____ Date: 11-15-05 Time: 1000

Comments:

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-130



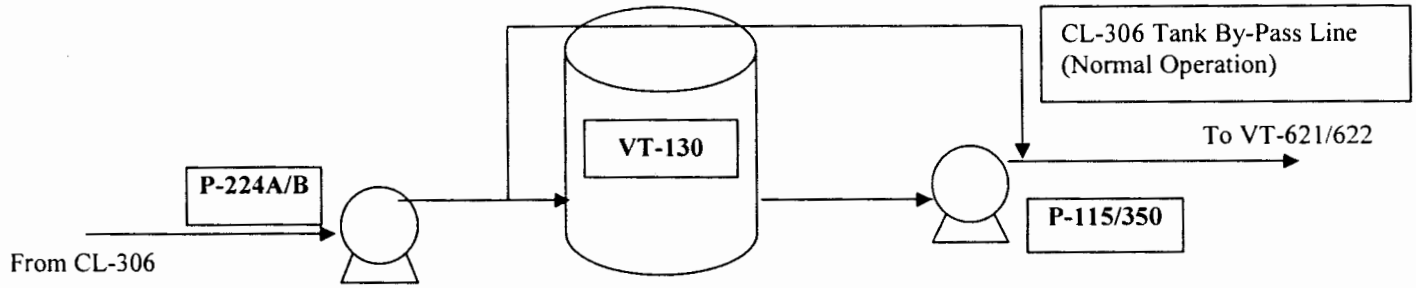
Note: This tank (VT-130) must be pumped completely empty every sixty(60) days.

Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☐ Closed & Locked	Yes (No)	
Tank Valves & Piping	Yes (No)	(Yes) No	☐ Open ☐ Closed & Locked	Yes (No)	
Outlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☐ Closed & Locked	Yes (No)	

Area Inspected By: _____ Date: 11-23-09 Time: 1100

Comments:

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-130



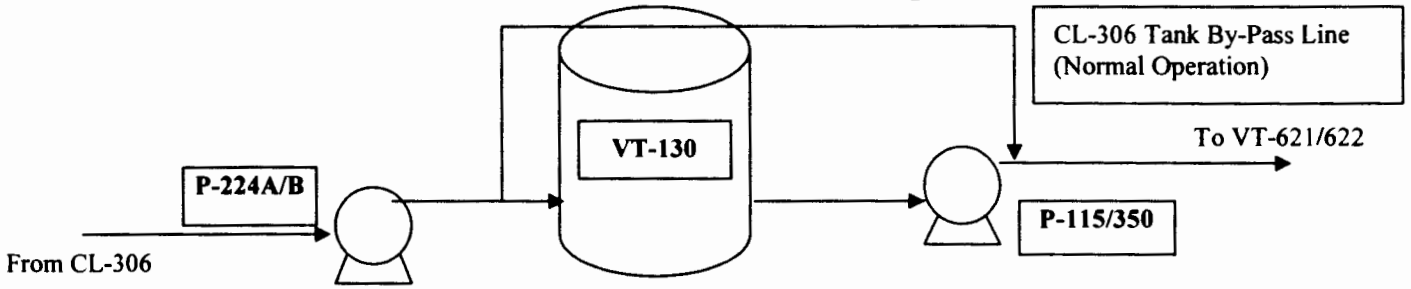
Note: This tank (VT-130) must be pumped completely empty every sixty(60) days.

Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes ~~No~~	Yes ~~No~~	☐ Open ☐ Closed & Locked	Yes ~~No~~	
Tank Valves & Piping	Yes ~~No~~	Yes ~~No~~	☐ Open ☐ Closed & Locked	Yes ~~No~~	
Outlet Piping, Pumps, etc.	Yes ~~No~~	Yes ~~No~~	☐ Open ☐ Closed & Locked	Yes ~~No~~	

Area Inspected By: [signature] Date: 12-13-09 Time: 1300

Comments:

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-130



Note: This tank (VT-130) must be pumped completely empty every sixty(60) days.

All Yes and No need to be completed

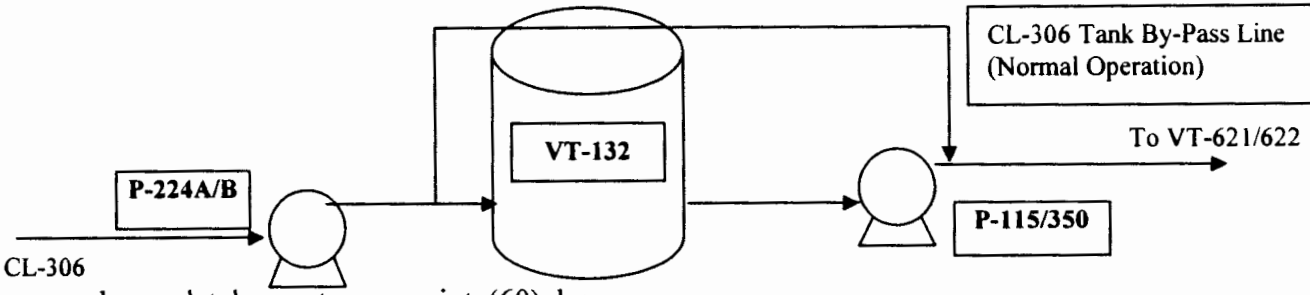
Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes (No)	Yes (No)	☐ Open ☑ Closed & Locked	(Yes) No	
Tank Valves & Piping	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	(Yes) No	
Outlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	(Yes) No	

Area Inspected By: 2981 Date: 12/21/09 Time: 1500

Comments:

Attachment #13

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-132



Note: This tank (VT-132) must be pumped completely empty every sixty(60) days.

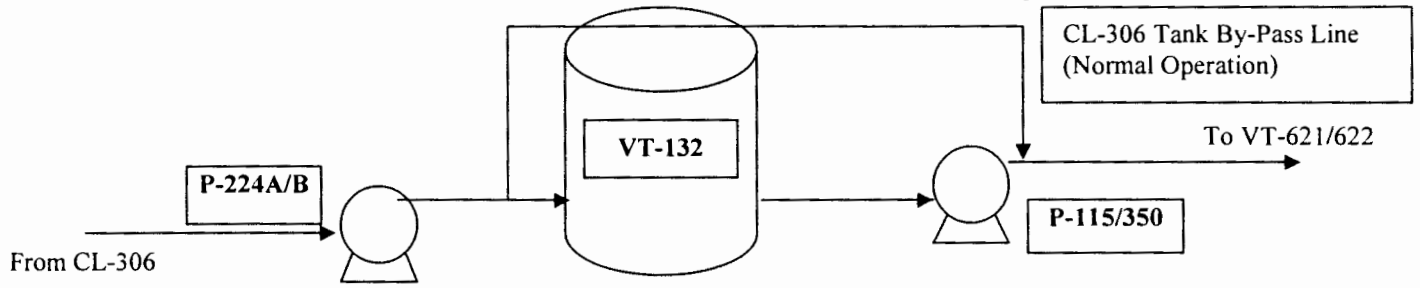
All Yes and No need to be completed

Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes **No**	**Yes** No	☐ Open ☑ Closed & Locked	**Yes** No	
Tank Valves & Piping	Yes **No**	**Yes** No	☐ Open ☑ Closed & Locked	**Yes** No	
Outlet Piping, Pumps, etc.	Yes **No**	**Yes** No	☐ Open ☑ Closed & Locked	**Yes** No	

Area Inspected By: _____ Date: 11-15-09 Time: 1000

Comments:

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-132



Note: This tank (VT-132) must be pumped completely empty every sixty(60) days.

All Yes and No need to be completed

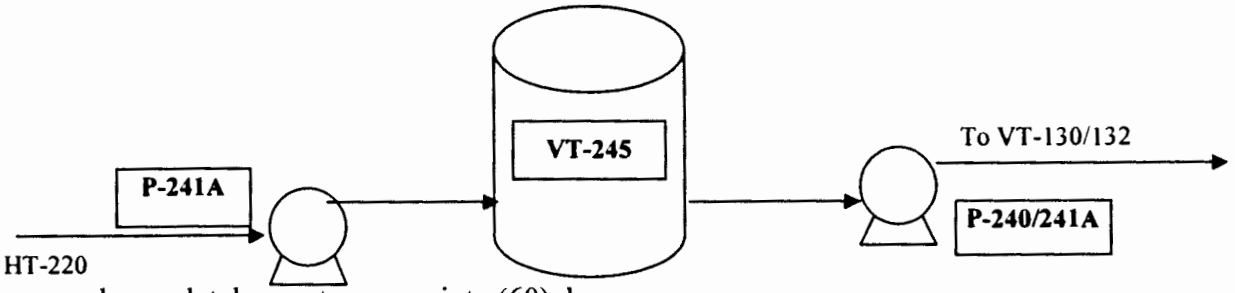
Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☐ Closed & Locked	Yes (No)	
Tank Valves & Piping	Yes (No)	(Yes) No	☐ Open ☐ Closed & Locked	Yes (No)	
Outlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☐ Closed & Locked	Yes (No)	

Area Inspected By: _____ Date: 11-23-09 Time: 1100

Comments:

Attachment #14

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-245



Note: This tank (VT-245) must be pumped completely empty every sixty (60) days.

All Yes and No need to be completed

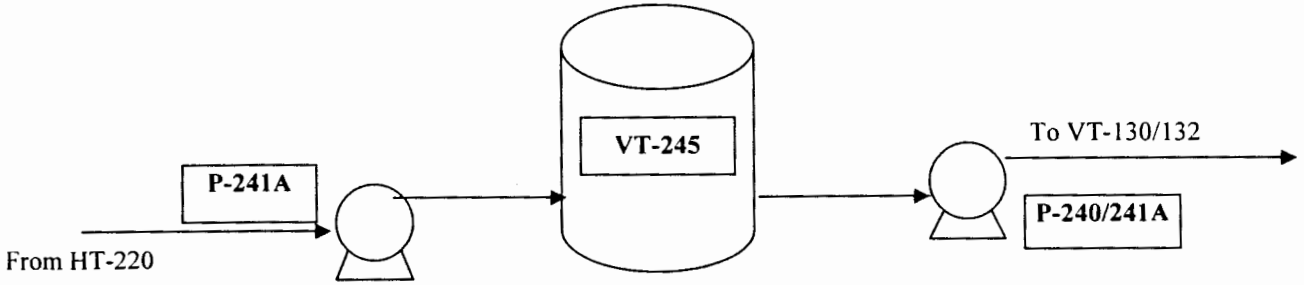
Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☐ Closed & Locked	(Yes) No	
Tank Valves & Piping	Yes (No)	(Yes) No	☐ Open ☐ Closed & Locked	(Yes) No	
Outlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☐ Closed & Locked	(Yes) No	

Area Inspected By: _____ Date: 11-15-09 Time: 1000

Comments:

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-245

SUNOCO CHEMICALS



Note: This tank (VT-245) must be pumped completely empty every sixty(60) days.

All Yes and No need to be completed

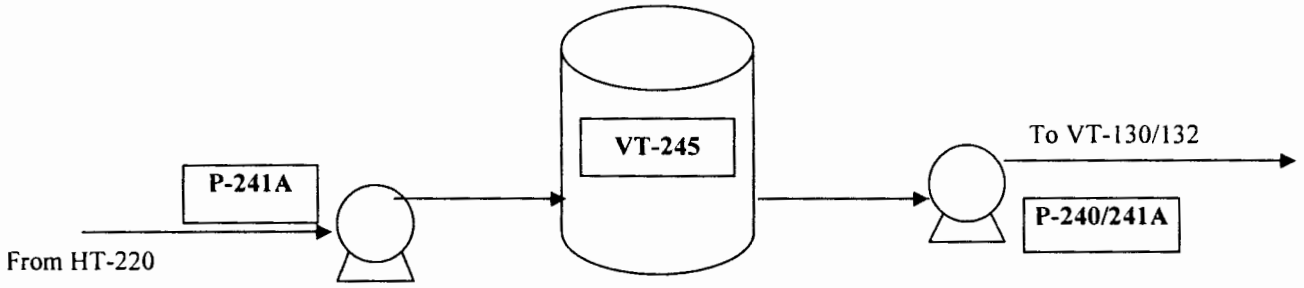
Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	Yes (No)	
Tank Valves & Piping	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	Yes (No)	
Outlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	Yes (No)	

Area Inspected By: _____ Date: 11-23-09 Time: 1100

Comments:

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-245

SUNOCO CHEMICALS



Note: This tank (VT-245) must be pumped completely empty every sixty(60) days.

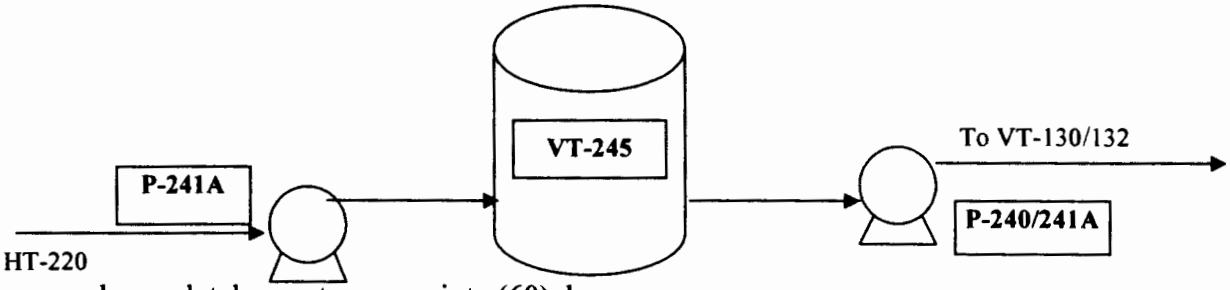
All Yes and No need to be completed

Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes ~~No~~	Yes ~~No~~	☐ Open ☑ Closed & Locked	Yes ~~No~~	
Tank Valves & Piping	Yes ~~No~~	Yes ~~No~~	☐ Open ☑ Closed & Locked	Yes ~~No~~	
Outlet Piping, Pumps, etc.	Yes ~~No~~	Yes ~~No~~	☐ Open ☑ Closed & Locked	Yes ~~No~~	

Area Inspected By: JLG Date: 12-13-09 Time: 1300

Comments:

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-245



Note: This tank (VT-245) must be pumped completely empty every sixty (60) days.

All Yes and No need to be completed

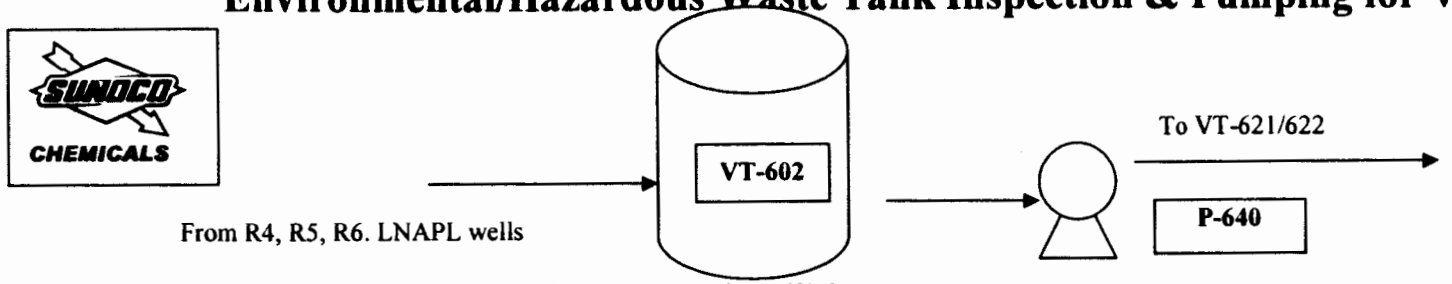
Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	(Yes) No	
Tank Valves & Piping	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	(Yes) No	
Outlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	(Yes) No	

Area Inspected By: 2981 Date: 12/21/09 Time: 1500

Comments:

Attachment #15

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-602



Note: This tank (VT-602) must be pumped completely empty every sixty (60) days.

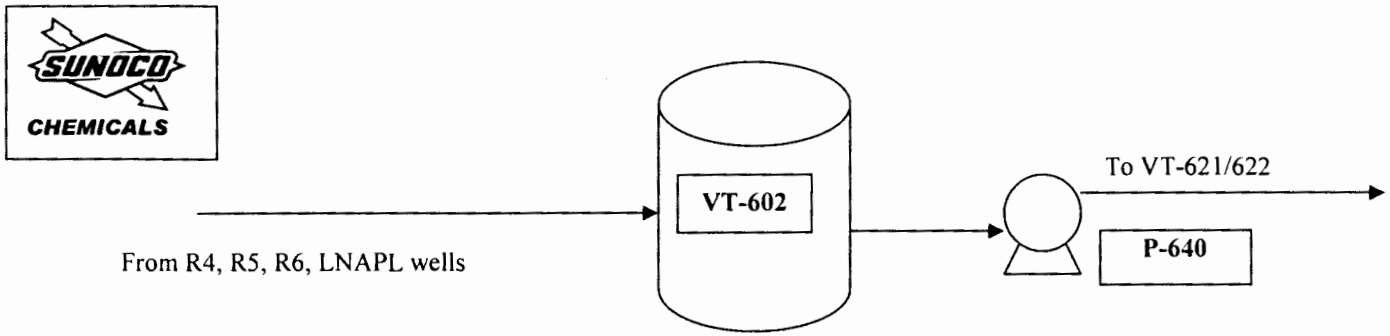
All Yes and No need to be completed

Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes **No**	**Yes** No	☐ Open ☐ Closed & Locked	**Yes** No	
Tank Valves & Piping	Yes **No**	**Yes** No	☐ Open ☐ Closed & Locked	**Yes** No	
Outlet Piping, Pumps, etc.	Yes **No**	**Yes** No	☐ Open ☐ Closed & Locked	**Yes** No	

Area Inspected By: _____ Date: 11-15-09 Time: 1000

Comments:

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-602



Note: This tank (VT-602) must be pumped completely empty every sixty(60) days.
All Yes and No need to be completed

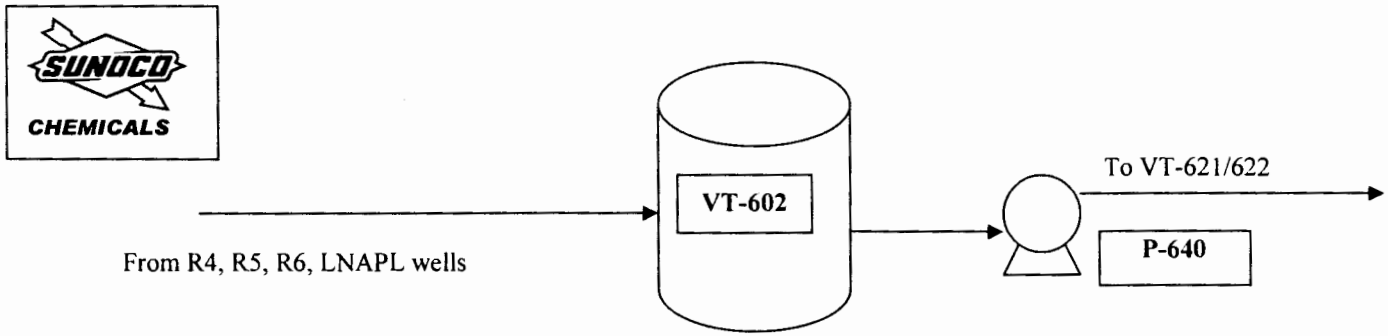
Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☐ Closed & Locked	Yes (No)	
Tank Valves & Piping	Yes (No)	(Yes) No	☐ Open ☐ Closed & Locked	Yes (No)	
Outlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☐ Closed & Locked	Yes (No)	

Area Inspected By: _____ Date: 11-23-09 Time: 1100

Comments:

FORM #526602 (Q:/Procedur/App_Proc/Regs/Envircomp) 3/31/99 (Rev. 03)

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-602



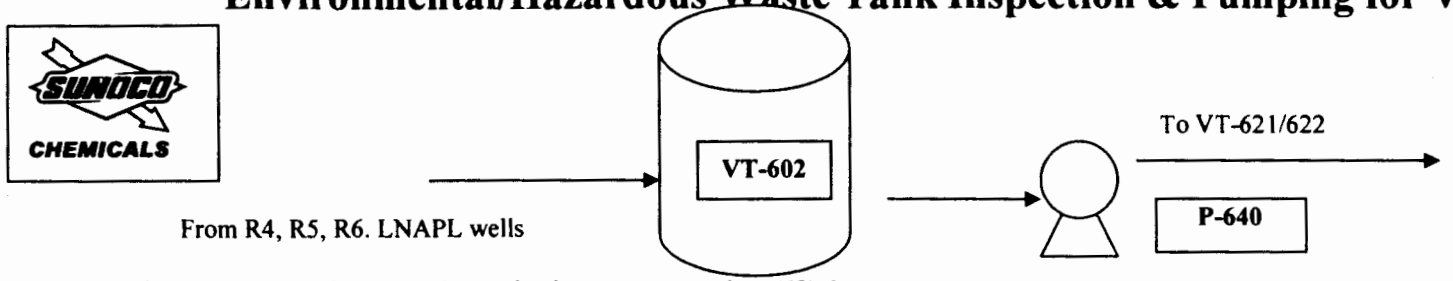
Note: This tank (VT-602) must be pumped completely empty every sixty(60) days.
All Yes and No need to be completed

Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes **No**	Yes **No**	☐ Open ☑ Closed & Locked	Yes **No**	
Tank Valves & Piping	Yes **No**	Yes **No**	☐ Open ☑ Closed & Locked	Yes **No**	
Outlet Piping, Pumps, etc.	Yes **No**	Yes **No**	☐ Open ☑ Closed & Locked	Yes **No**	

Area Inspected By: JRH Date: 12-13-09 Time: 1300

Comments:

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-602



Note: This tank (VT-602) must be pumped completely empty every sixty (60) days.

All Yes and No need to be completed

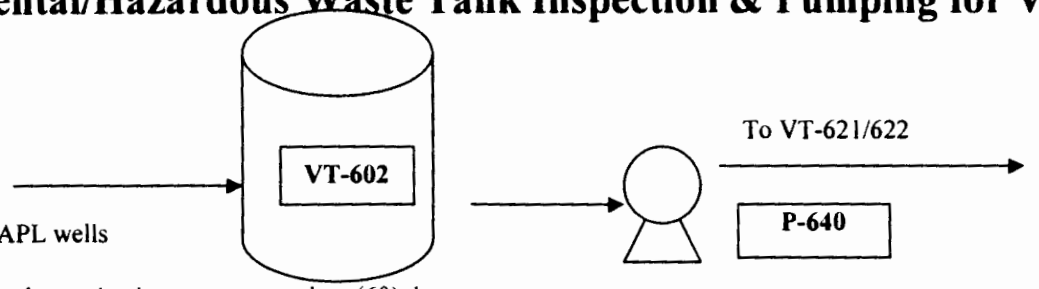
Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	(Yes) No	
Tank Valves & Piping	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	(Yes) No	
Outlet Piping, Pumps, etc.	Yes (No)	(Yes) No	☐ Open ☑ Closed & Locked	(Yes) No	

Area Inspected By: 2981 Date: 12/21/09 Time: 1500

Comments:

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-602

SUNOCO CHEMICALS



Note: This tank (VT-602) must be pumped completely empty every sixty (60) days.

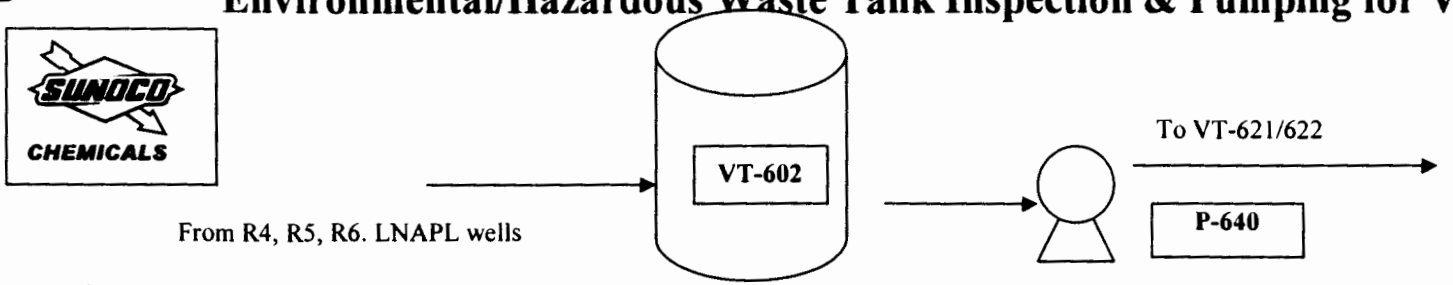
All Yes and No need to be completed

Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes (No)	Yes (No)	☐ Open ☑ Closed & Locked	Yes (No)	
Tank Valves & Piping	Yes (No)	Yes (No)	☐ Open ☑ Closed & Locked	Yes (No)	
Outlet Piping, Pumps, etc.	Yes (No)	Yes (No)	☐ Open ☑ Closed & Locked	Yes (No)	

Area Inspected By: _____ Date: 9/27/10 Time: _____

Comments:

Environmental/Hazardous Waste Tank Inspection & Pumping for VT-602



Note: This tank (VT-602) must be pumped completely empty every sixty (60) days.

All Yes and No need to be completed

Section of Tank System	Visible Leaks or Spills?	Dike Condition Cracks? Vegetation? Housekeeping OK? (must be completed):	Dike Drain Valve: (√ Check One)	Condition of Tank OK? Include location of Needed Repairs: i.e. Tank corrosion? Paint Condition? Unusual venting? Other? If so need W/O Number	W/O Number Date Entered:
Inlet Piping, Pumps, etc.	Yes ~~No~~	Yes ~~No~~	☐ Open ☐ Closed & Locked	Yes ~~No~~	
Tank Valves & Piping	Yes ~~No~~	Yes ~~No~~	☐ Open ☐ Closed & Locked	Yes ~~No~~	
Outlet Piping, Pumps, etc.	Yes ~~No~~	Yes ~~No~~	☐ Open ☐ Closed & Locked	Yes ~~No~~	

Area Inspected By: JSC Date: 9-26-10 Time: 1200

Comments:
